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APPLICANT : TONEN CORP;

INVENTOR : ISODA TAKESHI;

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TITLE : ADHESIVE FOR CERAMICS AND/OR METAL AND USE THEREOF

ABSTRACT : PURPOSE: To obtain the subject adhesive for heat-resistant tight sealing capable of use for formation of a solid electrolyte fuel cell by blending a polysilazane- based polymer as a ceramics precursor with a submicron inorganic filler, etc.

CONSTITUTION: An objective adhesive obtained by blending (A) 1 pts.wt. polysilazane-based polymer (suitable example; perhydropolysilazane, perhydropolysiloxazane, perhydropolymetallosilazane, etc.) preferably having about 500-700 molecular weight as a ceramics precursor with (B) preferably ≤ 18 pts.wt. submicron inorganic filler such as a ceramics, a metal or glass. The resultant adhesive is applied to an adherend or tight sealing part of a ceramics and/or a metal member and both the members are brought into contact mutually. After completion of assembling, baking is carried out to convert the precursor polymer into a ceramics.

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